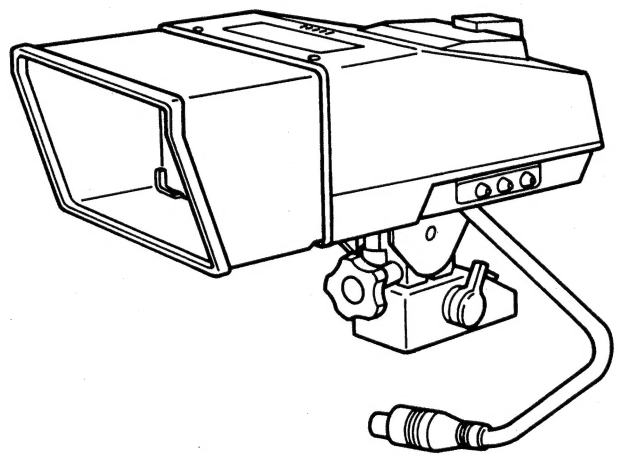
JVC

SERVICE MANUAL

VIEWFINDER

VF-P550B



SPECIFICATIONS

Input signal	:	Composite video, 1 Vp-p, high impedance
CRT	:	140 mm (5.5") diagonal
Resolution	:	More than 650 lines
Tally lamps	:	Top; filament lamp (12 V) Screen side; L.E.D.
Power consumption	:	12 V DC, 14 W (provided from video camera)
Ambient temperature range	:	–10°C to +45°C (–4°F to +122°F)
Weight	:	2.5 kg (5.6 lbs)
Accessory	:	Viewfinder hood

No. 60082
July 1993

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▒) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

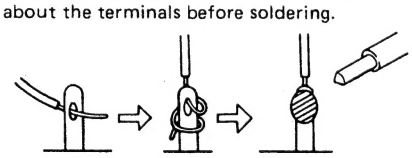


Fig. 1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10—15 kg of force in any direction will not loosen it.

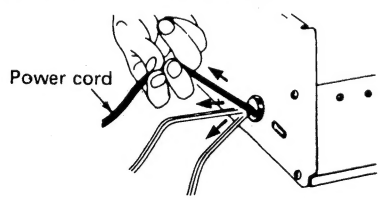


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

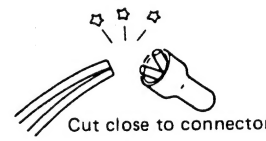


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

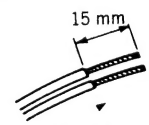


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

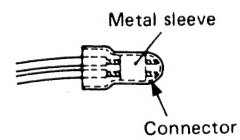


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

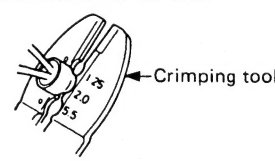


Fig. 6

(5) Check the four points noted in Fig. 7.

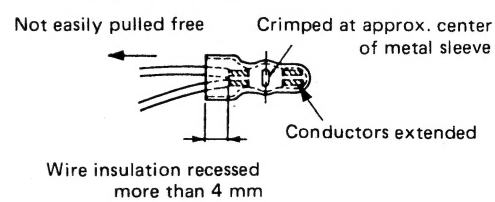


Fig. 7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

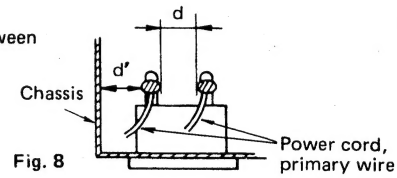


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

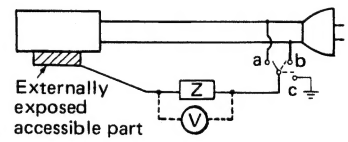


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

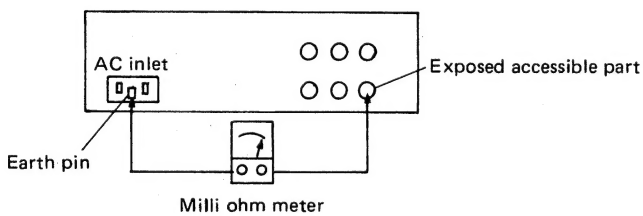


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

Note:
In the case the camera incorporating this viewfinder is driven by the power supplied from the RM-P300, "LOW BATTERY" warning is occasionally displayed in blinking of the TALLY lamp in the viewfinder resulting from voltage drop owing to the camera cable.
When this phenomenon is observed, it needs to replace the program ROM of the camera's CP board.

1.1 REMOVAL OF MAIN PARTS

1.1.1 Replacement of fuse

When replacing the fuse, the reason why it blew should be investigated and removed first to prevent the trouble from spreading. Before proceeding to do replacement, make sure to cut off the power supply.

1. Remove two screws ① from the bottom.

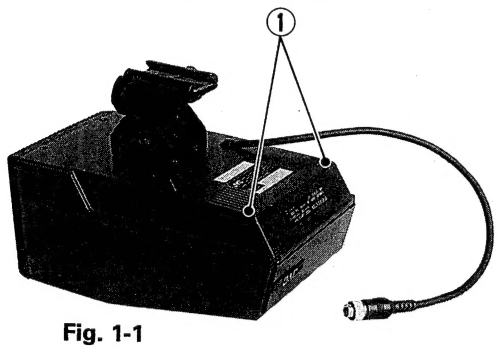


Fig. 1-1

2. Remove two screws ② from the top, and lift the top cover upwards while taking it off.

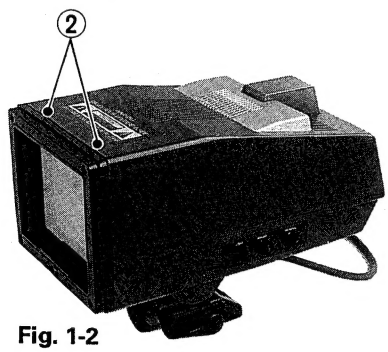


Fig. 1-2

3. A fuse (F1) is set on the DEF board.

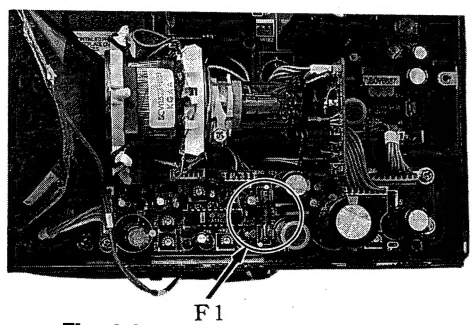


Fig. 1-3

4. Make sure to replace the fuse with specified one having the following part number for safety and protection of the unit.

⚠ F1

Version	Part No.
U	QMF51U1-1R6 (125 V, 1.6 A)
E	QMF51A2-1R6 (250 V, T1.6 A)

1.1.2 Replacement of top tally lamp

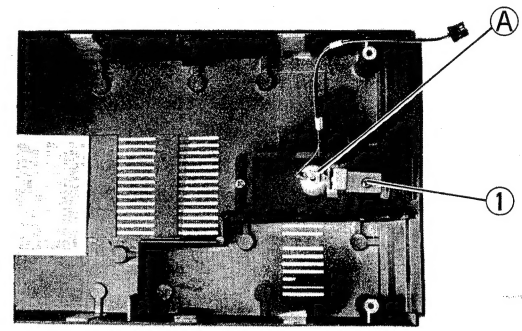


Fig. 1-4

1. Remove a screw ① from the back of the top cover.
2. The lamp socket Ⓐ is detached. Push the lamp to the bottom while turning it counterclockwise to take it out.

1.1.3 Removal of CRT (cathode-ray tube)

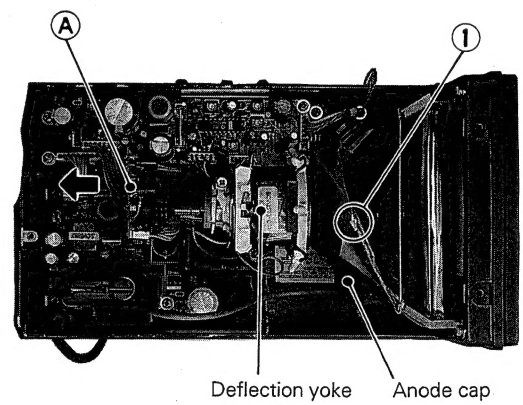


Fig. 1-5

1. Discharge charging current from the anode cap to the CRT ground ①, then remove the anode cap from the CRT.
2. Pull out the CRT board Ⓐ in the direction of the arrow.
3. Unsolder the CRT grounding wire ① (green wire).

4. Remove two screws ③ retaining the escutcheon Ⓔ from the bottom, and the escutcheon can be removed together with the bottom plate in the direction of the front side.

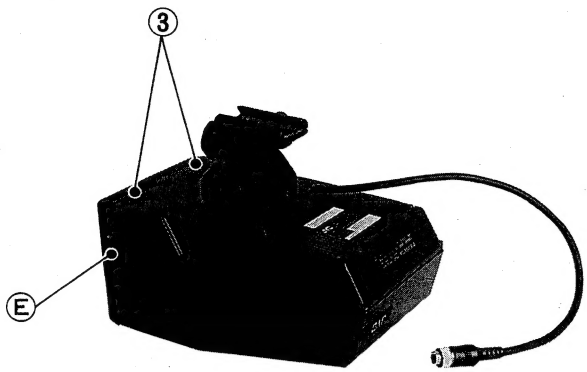


Fig. 1-6

5. Loosen a screw ⑥ retaining the deflection yoke band, and remove four screws ⑦ retaining the band hook metal.
6. Then, the CRT is detached from the escutcheon. The deflection yoke Ⓓ can be pulled out by loosening a screw ⑧ retaining it.

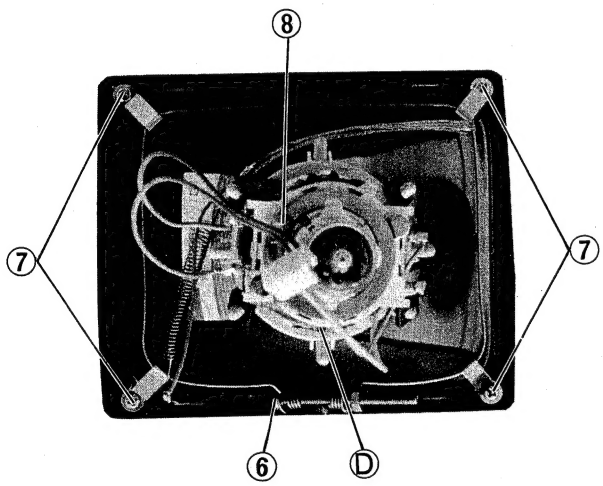


Fig. 1-7

1.1.4 Removal of main P. C. board

P.C. board located as follows:

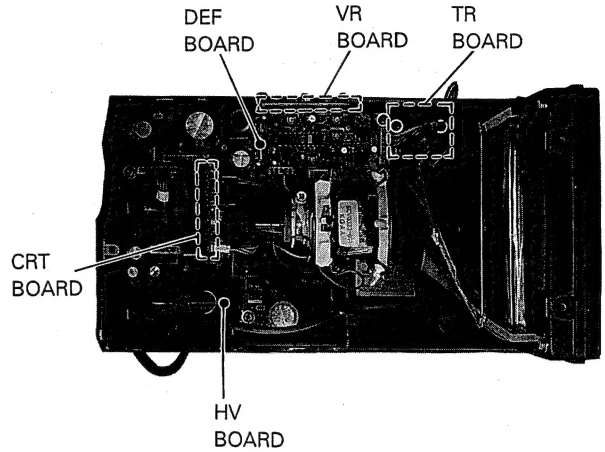


Fig. 1-8

SECTION 2
ELECTRICAL ADJUSTMENT

2.1 PRECAUTION

The following describes adjustments required for repair and parts replacement. Before starting any adjustment, make sure to check the trouble with correctly calibrated measuring instruments.

2.2 ADJUSTMENT

2.2.1 Synchronization (H and V hold) adjustment

1. Adjust the H. HOLD control (VR1) and the V. HOLD control (VR2) until the picture becomes stable in good synchronization.

2.2.2 Focus adjustment

1. Turn the PEAKING control fully counterclockwise (↶).
2. Set the CONTRAST control to the mechanical center position.
3. Turn the BRIGHTNESS control to change brightness level while adjusting the FOCUS control (VR101) to bring the picture into the best focus in respective brightness levels.

2.2.3 Picture size adjustment

1. Play a crosshatch or registration pattern in the screen.
2. Alternately adjust the V. HEIGHT control (VR4) and the H. SIZE control (VR5) to match the picture size with the frame indication lines. At the same time, adjust the position and inclination of the picture with the rotation and the centering magnets of the deflection yoke.

Note: After adjustment of H-size, it is required to adjust the Heater Voltage regulation according to section 2.2.6.

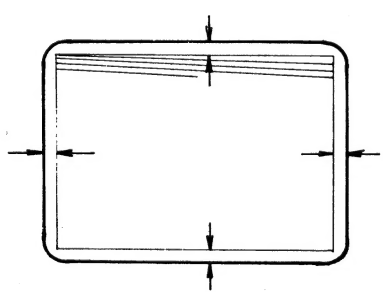


Fig. 2-1

2.2.4 Centering and linearity adjustment

1. When the picture comes off the screen in the vertical and/or horizontal center, adjust centering of the picture with the H. LIN control (L102), the V. LIN (VR3), the H-SIZE control (VR5), the V-HEIGHT control (VR4) and the centering magnet of the deflection yoke.

2.2.5 Distortion correction

This adjustment is required only after replacement of the CRT and the deflection yoke. Otherwise, it is unnecessary.

1. When the picture is distorted in a certain direction, correct it by rotating or trying to remove ferrite magnets installed near the deflection yoke.

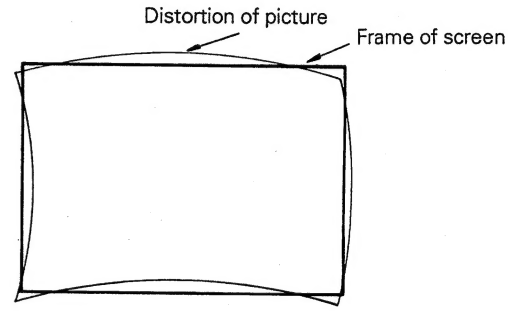


Fig. 2-2

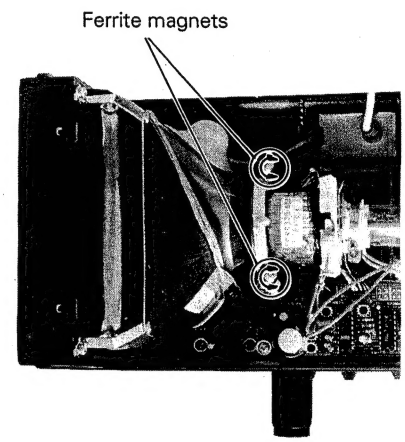


Fig. 2-3

2. Perform "2.2.3 Picture size adjustment" and "2.2.4 Centering and linearity adjustment" again.

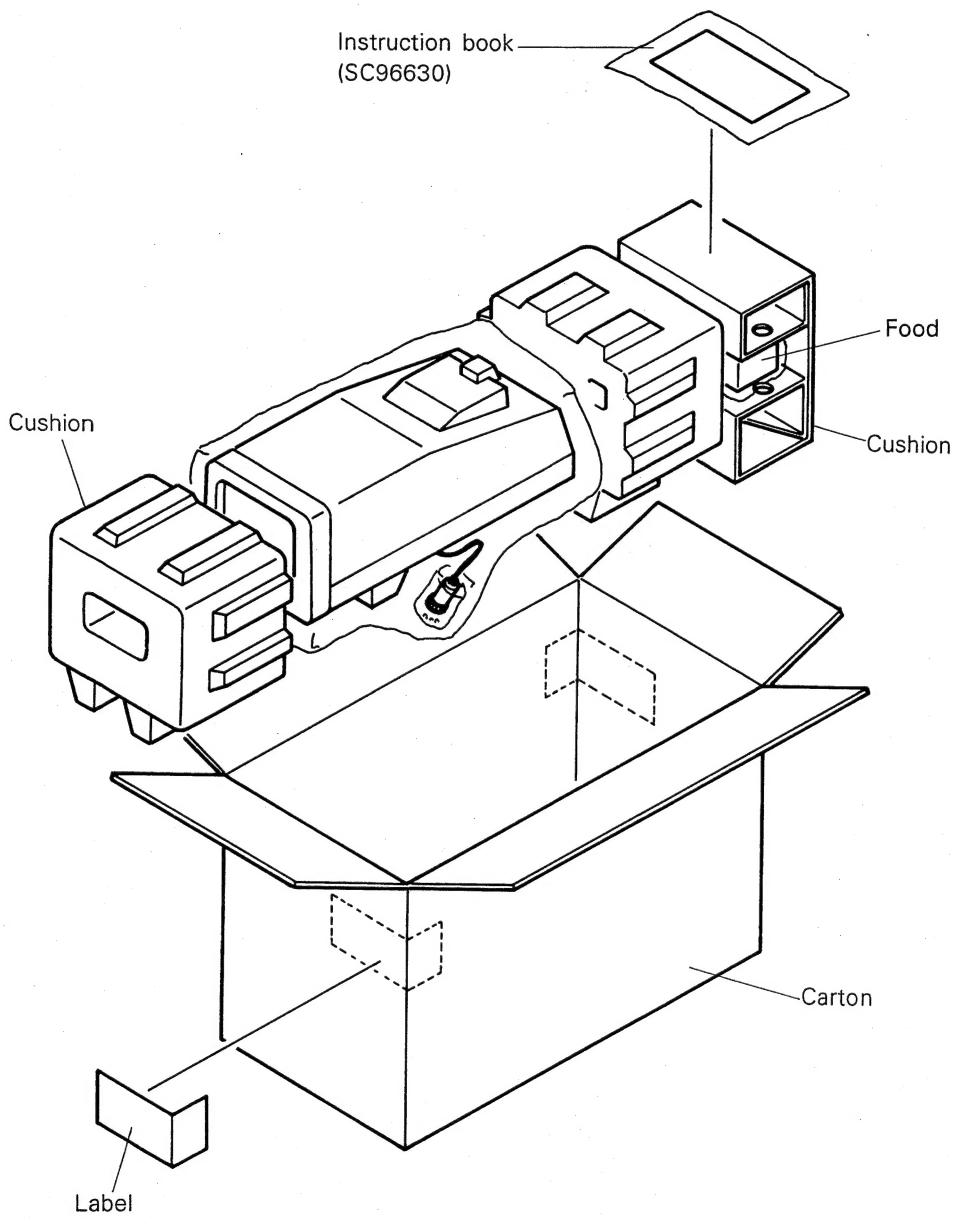
2.2.6 Heater voltage regulation

This adjustment is required after replacement of the fly-back transformer (T102 on the HV board) after adjustment H-size.

1. Measure voltage at pin 3 of the CRT socket (J1) to confirm that it is 11.7 V ± 0.3 V.
2. If it is out of the specified voltage, change the setting position of the shorting pin of S101.

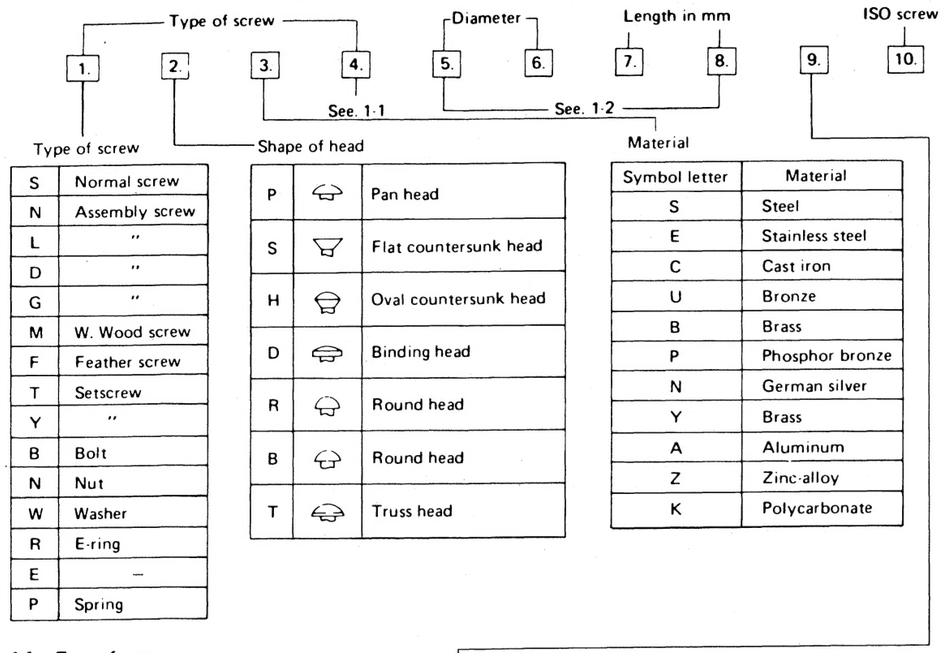
Note: Heater voltage varies with change of setting of the H. SIZE control (VR5 on the DEF board). Therefore, this adjustment should be performed after the H. SIZE adjustment (see 2.2.3) to get the CRT to serve for a possibly long time.

SECTION 3
REPACKING



SECTION 4
EXPLODED VIEW AND PARTS LIST

Note: Replacing marked ⚠ parts, be sure to use parts specified for safety purposes.
In this exploded view the part number of the screws and washers designate the type and dimensions* of those items.
The following examples will help you to decipher them.



S	Normal screw
N	Assembly screw
L	"
D	"
G	"
M	W. Wood screw
F	Feather screw
T	Setscrew
Y	"
B	Bolt
N	Nut
W	Washer
R	E-ring
E	–
P	Spring

P		Pan head
S		Flat countersunk head
H		Oval countersunk head
D		Binding head
R		Round head
B		Round head
T		Truss head

Symbol letter	Material
S	Steel
E	Stainless steel
C	Cast iron
U	Bronze
B	Brass
P	Phosphor bronze
N	German silver
Y	Brass
A	Aluminum
Z	Zinc-alloy
K	Polycarbonate

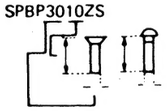
1-1 Type of screw

P	Cross-Recessed head screw
A	Tapping screw
B	Tapping screw
T	Tapping screw
E	Tapping screw

1-2 Diameter and Length of screw

– Example –

SPBP3010ZS



(Diameter x 10)

E-ring Washer

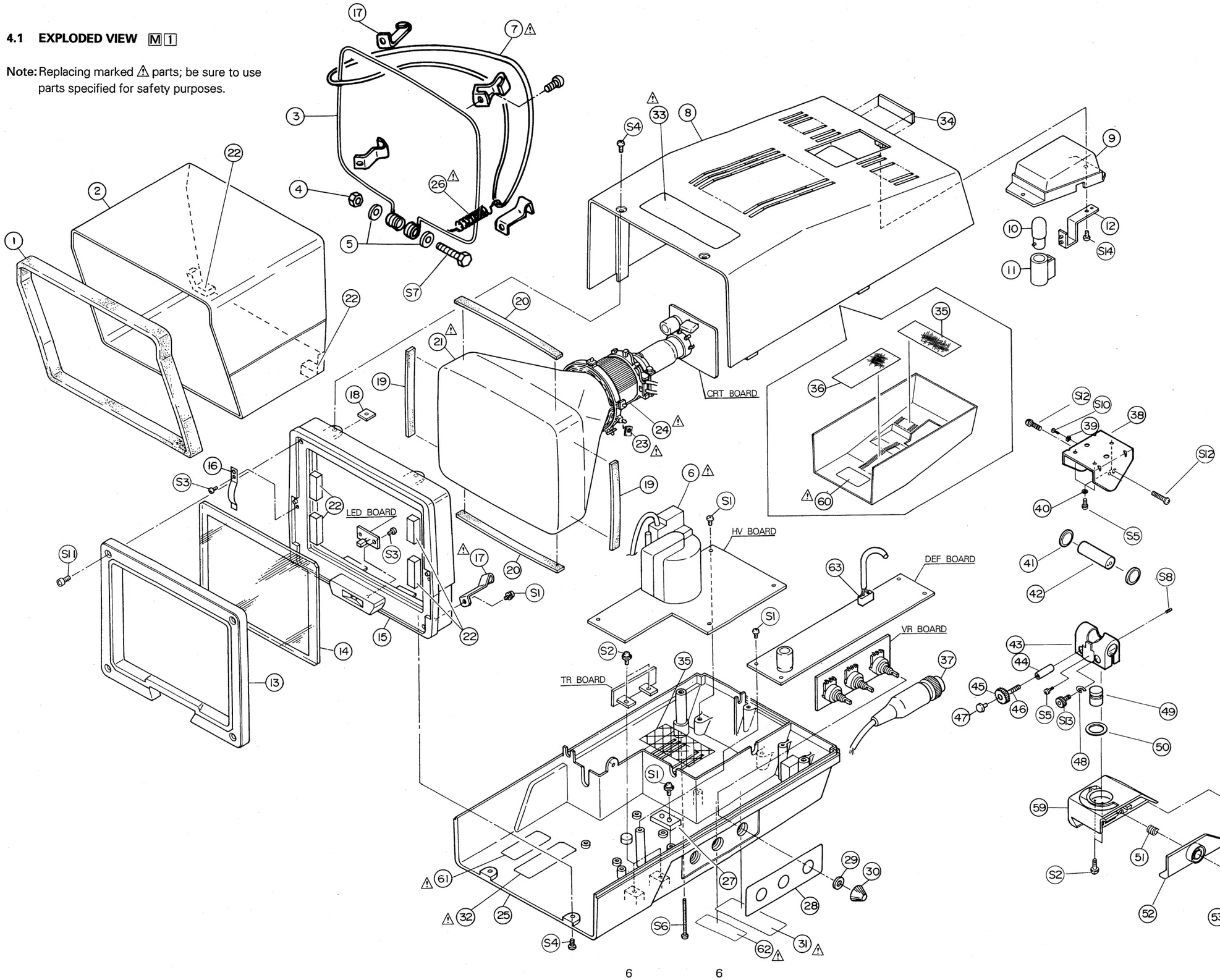
REE3000 WNS3000N

Surface treatment

Symbol letter	Surface treatment
Z	Galvanization, dichromic acid treatment (MFZn2-C)
N	Nickel plating (MFNi2, MFNi1)
R	Chrome plating (MBCr2, MBCr1)
G	Silver plating (SP4)
W	Nichrome platings
P	Phosphite treatment
B	Bronze plating
M	Black coloring after galvanization
A	Red coloring after galvanization
C	Blue coloring after galvanization
T	Green coloring after galvanization
V	Violet coloring after galvanization
F	Iron with black coloring

4.1 EXPLODED VIEW M1

Note: Replacing marked ⚠ parts; be sure to use parts specified for safety purposes.



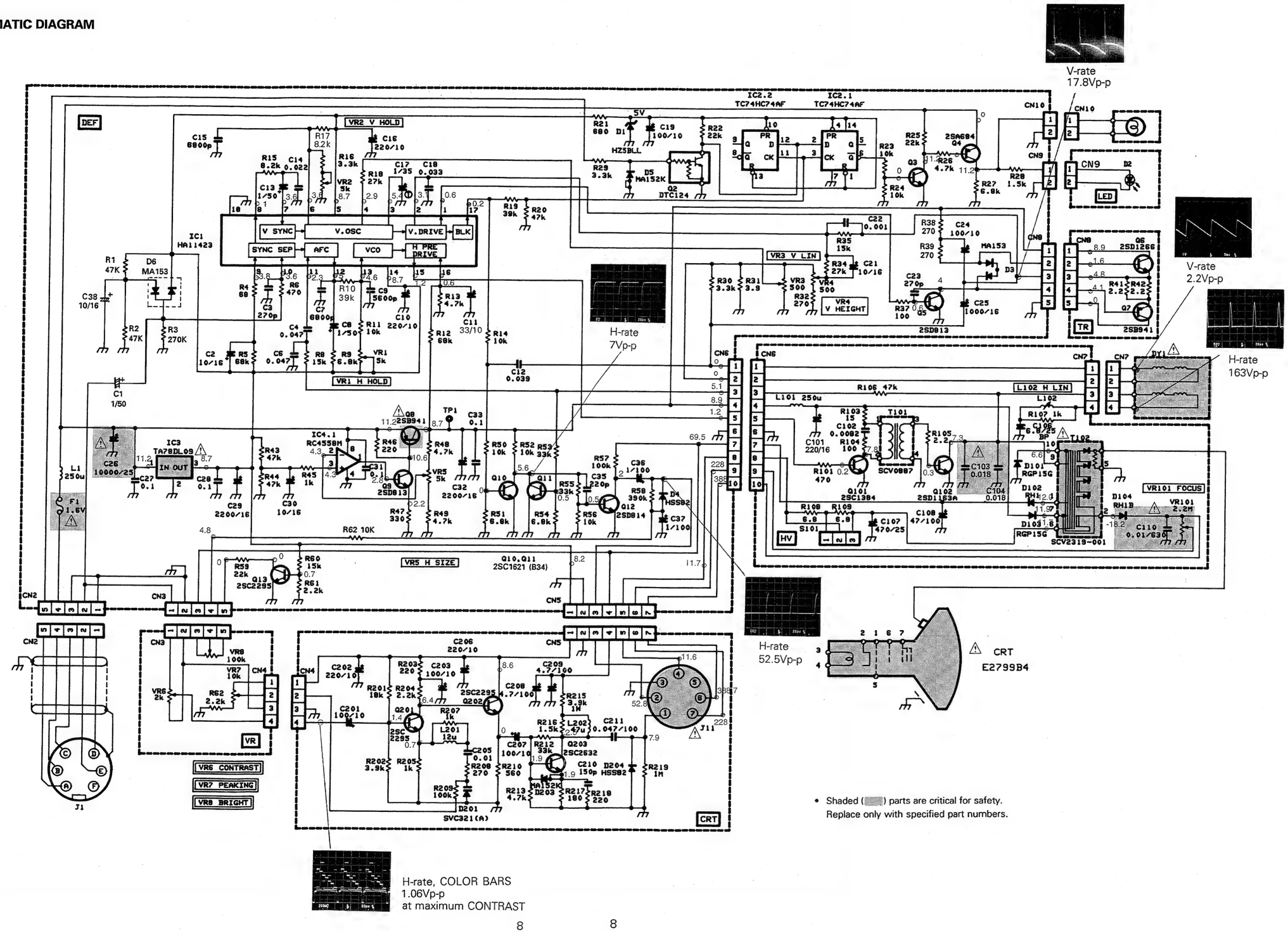
● VF-P550B Assembly list M1

M1MM□□□□

Symbol No.	Part No.	Part Name	Description
1	SC30441-001	RUBBER PROTECT.	
2	SC20148-001	HOOD	
3	SC30435-001	HOLDER	
4	NNS4000N	NUT	
5	WNS4000N	WASHER	
⚠ 6	SCV2319-001	F.B.T	T102
⚠ 7	MLSC0598-001	WIRE ASS'Y	
8	SC10035-002	UPPER CASE	
9	SC31755-001	TALLY CAP	
10	SCV1532-001	LAMP	12V, 150mA
11	GP42436-001	LAMP HOLDER	
12	SC45463-001	BRACKET	
13	SC20154-001	ESCUTCHEON	
14	SC41178-001	PLATE GLASS	
15	SC20149-001	FRONT COVER	
16	SC41086-001	BRACKET	
⚠ 17	SC41196-001	HOOK	
18	SC40022-002	PLATE	
19	SC41095-002	RUBBER	
20	SC41095-001	RUBBER	
⚠ 21	E2799B4	PICTURE TUBE	
22	SC40823-001	CUSHION	
⚠ 23	SCV0551-001	MAGNET	
⚠ 24	SCV0523-001	DEFLECTION YOKE	
25	SC10034-001	BOTTOM CASE	
⚠ 26	55246	SPRING	
27	SC41248-001	BRACKET	
28	SC41087-001	NAME PLATE	VR
29	SC40916-001	NUT	
30	SC40917-001	KNOB	
⚠ 31	SC40997-001	NAME PLATE	
⚠ 32	SC41252-001	CAUTION LABEL	For U Version
⚠ 33	SC41058-002	CAUTION LABEL	For E Version
⚠	SC41737-011	CAUTION LABEL	For U Version
34	–	JVC LOGO MARK	QXM2242-001
35	SC41247-002	NET	
36	SC41247-001	NET	
37	SCV2343-00A	VF CABLE ASS'Y	
38	SC30578-002	BASE	
39	WBS2600N	LOCK WASHER	
40	WAS3000N	T.LOCK WASHER	
41	SC41668-001	SPACER	
42	SC41665-002	SHAFT	
43	SC30579-002	HOLDER	
44	SC44018-001	NUT	
45	SC41672-001	KNOB	PAN.TILT ADJUST
46	BNS6045M	BOLT	
47	SC44017-001	CAP	FOR (45)
48	WLS6000M	LOCK WASHER	
49	SC41675-002	SHAFT	
50	SC41671-001	SPACER	
51	SC43545-001	SPRING	
52	SC31068-001	CLAMPER	
53	WNS5000N	WASHER	
54	SC43544-001	SCREW	
55	SC42485-004	LOCK KNOB	
56	PRE3020	SPRING PIN	
57	SC43547-001	SPRING	
58	SC43548-001	STOPPER	
59	SC20352-001	BASE	
⚠ 60	SC40376-003	SERVICE WARNING	
⚠ 61	SC42614-001	WARNING LABEL	For U Version
⚠ 62	SC30544-001	LABEL	"MANUFACTURED."
63	SSV1209-H05	CONN. HOUSING	For VF CABLE
S1	DPSP3006Z	SCREW	M3×6
S2	DPSP3008Z	SCREW	M3×8
S3	SBSF2606M	SCREW	M2.6×6
S4	SDSP3006M	SCREW	M3×6
S5	SDSP3008M	SCREW	M3×8
S6	SDSP3030M	SCREW	M3×30
S7	SPSP4045Z	SCREW	M4×45
S8	YFS5008M	SCREW	M5×8
S9	YRS3004M	SCREW	M3×4
S10	BYS2606M	BOLT	M2.6×6
S11	BYS3008M	BOLT	M3×8
S12	BYS4010M	BOLT	M4×10
S13	BYS6020M	BOLT	M6×20
S14	LPSP3008Z	SCREW	M3×8

SECTION 5
SCHEMATIC DIAGRAM AND CIRCUIT BOARDS

5.1 SCHEMATIC DIAGRAM



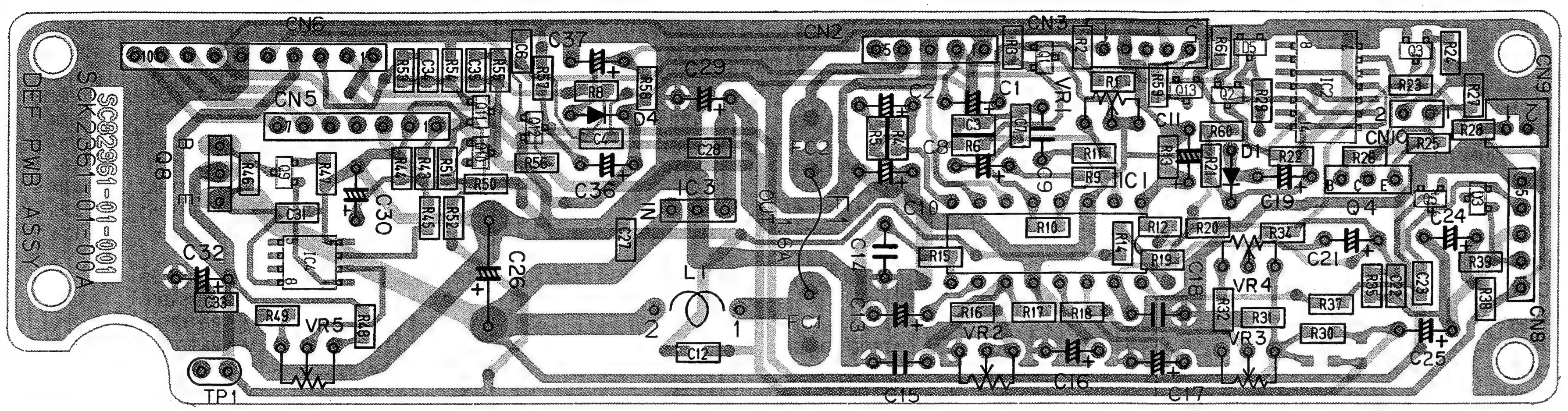
- Shaded (▒) parts are critical for safety.
  Replace only with specified part numbers.

1 2 3 4 5 6 7 8

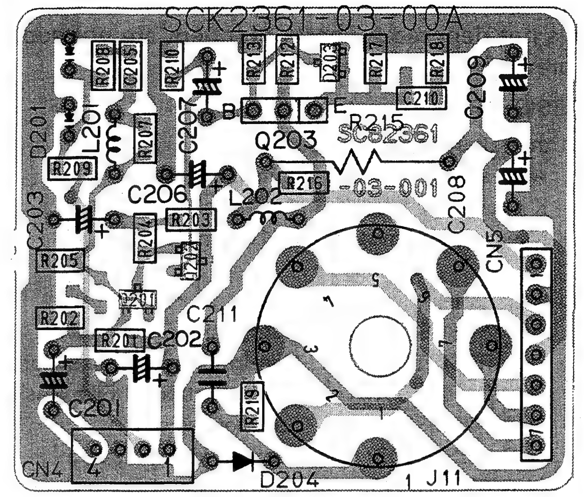
A B C D E

5.2 CIRCUIT BOARDS

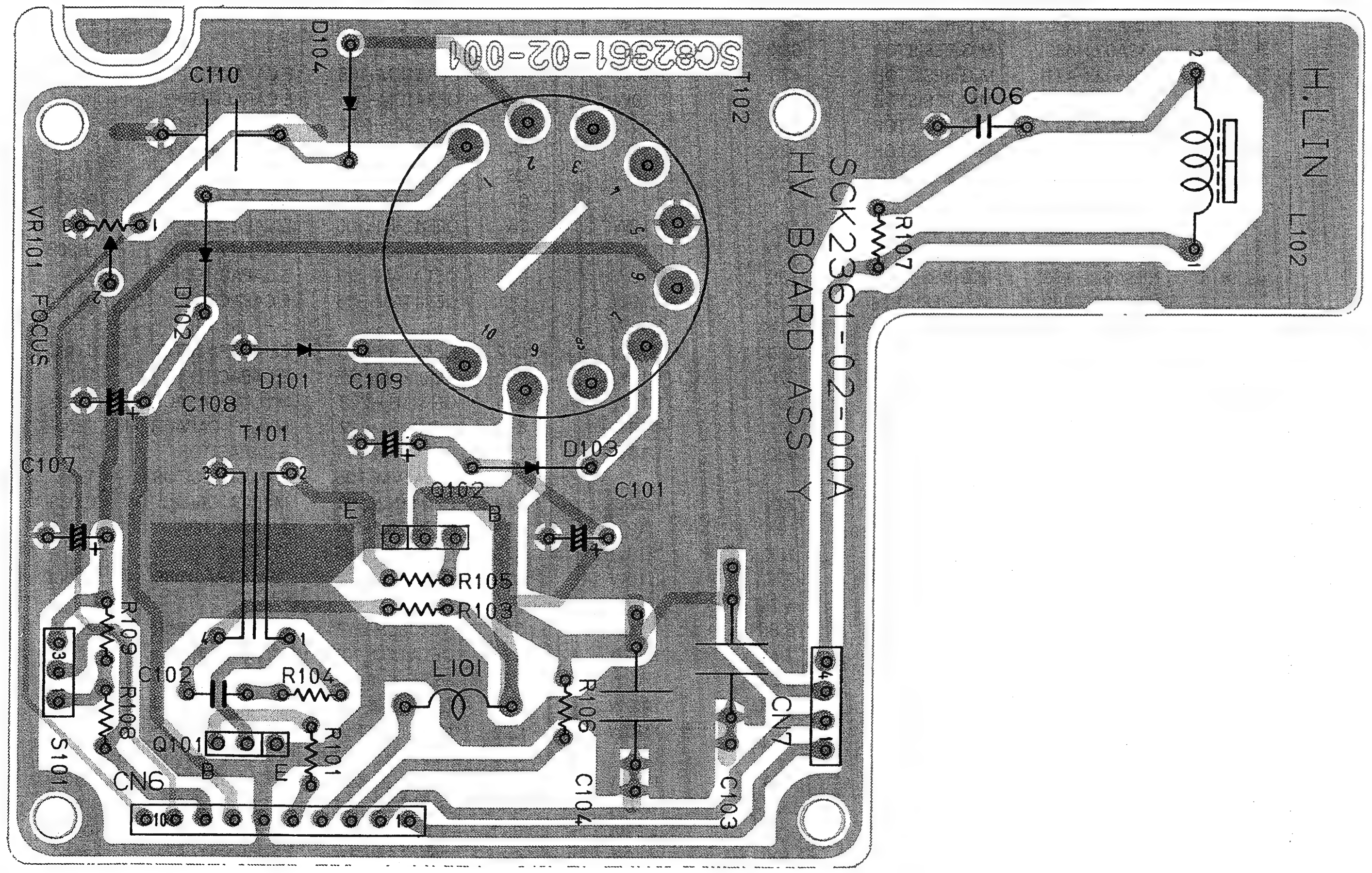
● **DEF circuit board**



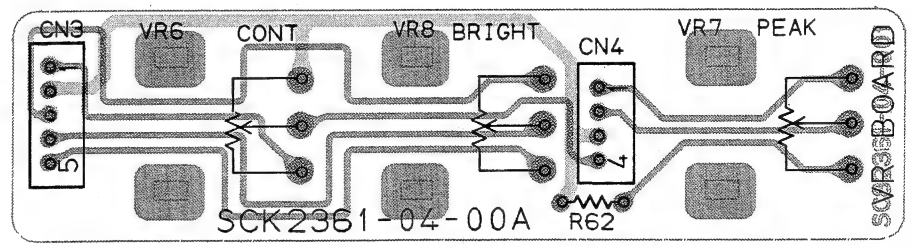
● **CRT circuit board**



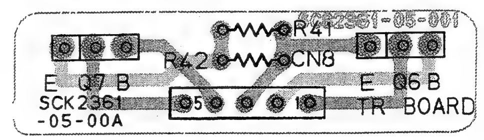
● **HV circuit board**



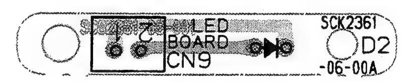
● **VR circuit board**



● **TR circuit board**



● **LED circuit board**



SECTION 6
ELECTRICAL PARTS LIST

SAFETY PRECAUTION:
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified parts numbers.
For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:
- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:
All resistance values are in ohms (Ω).
K expresses kilo-ohm (1 000 ohms, kΩ).
M expresses mega-ohm (10^6 ohms, MΩ).

In the "Parts Name" column:
COMP. RESISTOR : Composition Resistor
U.F. RESISTOR : Non-inflammable Resistor
O.M.F. RESISTOR : Oxide Metalized Film Resistor
FUSI. RESISTOR : Fusible Resistor
M.P. RESISTOR : Metal Plate Resistor
M.G. RESISTOR : Metal Graze Resistor
M.F. RESISTOR : Metal Film Resistor
W.W. RESISTOR : Wire Wound Resistor

CAPACITORS

In the "Description" column:
All capacitance values are in microfarad (μF) unless otherwise indicated.
P expresses picofarad (10^{-12} farad, pF).

In the "Parts Name" column:
TRIM. CAPACITOR : Trimmer Capacitor
CER. CAPACITOR : Ceramic Capacitor
E. CAPACITOR : Electrolytic Capacitor
TAN. CAPACITOR : Tantalum Capacitor
MPP CAPACITOR : Metalized Polypropylene Capacitor
O.F. CAPACITOR : Oil Film Capacitor
MPF CAPACITOR : Metalized Polyfilm Capacitor
F.M. CAPACITOR : Film Mica Capacitor
P.P. CAPACITOR : Polypropylene Capacitor
P.S. CAPACITOR : Polystyrene Capacitor

6.1 DEF board assembly list 01
⟨SCK2361-01-00A⟩ 01□□□□□□

Symbol No.	Part No.	Part Name	Description
IC1	HA11423	I.C.(M)	HITACHI
IC2	TC74HC74AF	I.C.(M)	TOSHIBA
IC3	TA78DL09P	I.C.(M)	TOSHIBA
IC4	RC4558M	I.C.(M)	RAYTHEON
Q1	2SC2295(B.C)	TRANSISTOR	MATSUSHITA
Q2	DTC124EK	TRANSISTOR	ROHM
Q3	2SC2295(B.C)	TRANSISTOR	MATSUSHITA
Q4	2SA684(R)	SI.TRANSISTOR	MATSUSHITA
Q5	2SD813(Q.R)	TRANSISTOR	MATSUSHITA
Q8	2SB941A(P.Q)	SI.TRANSISTOR	MATSUSHITA
Q9	2SD813(Q.R)	TRANSISTOR	MATSUSHITA
Q10	2SC1621(B34)	TRANSISTOR	NEC
Q11	2SC1621(B34)	TRANSISTOR	NEC
Q12	2SD814A(Q.R)	TRANSISTOR	MATSUSHITA
Q13	2SC2295(B.C)	TRANSISTOR	MATSUSHITA
D1	HZ5BLL	ZENER DIODE	HITACHI
D3	MA153	DIODE	MATSUSHITA
D4	HSS82	SI.DIODE	HITACHI
D5	MA152K	DIODE	MATSUSHITA
D6	MA153	DIODE	MATSUSHITA
R1	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R2	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R3	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
R4	NRSA02J-680	M.G.RESISTOR	68 1/10W
R5	NRSA02J-683	M.G.RESISTOR	68K 1/10W
R6	NRSA02J-471	M.G.RESISTOR	470 1/10W
R8	NRSA02J-153	M.G.RESISTOR	15K 1/10W
R9	NRSA02J-682	M.G.RESISTOR	6.8K 1/10W
R10	NRSA02J-393	M.G.RESISTOR	39K 1/10W
R11	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R12	NRSA02J-683	M.G.RESISTOR	68K 1/10W
R13	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
R14	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R15	NRSA02J-822	M.G.RESISTOR	8.2K 1/10W
R16	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W
R17	NRSA02J-822	M.G.RESISTOR	8.2K 1/10W
R18	NRSA02J-273	M.G.RESISTOR	27K 1/10W
R19	NRSA02J-393	M.G.RESISTOR	39K 1/10W
R20	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R21	NRSA02J-681	M.G.RESISTOR	680 1/10W
R22	NRSA02J-223	M.G.RESISTOR	22K 1/10W
R23	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R24	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R25	NRSA02J-223	M.G.RESISTOR	22K 1/10W
R26	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
R27	NRSA02J-682	M.G.RESISTOR	6.8K 1/10W
R28	NRSA02J-152	M.G.RESISTOR	1.5K 1/10W
R29	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W
R30	NRSA02J-332	M.G.RESISTOR	3.3K 1/10W
R31	NRSA02J-3R9	M.G.RESISTOR	3.9 1/10W
R32	NRSA02J-271	M.G.RESISTOR	270 1/10W
R34	NRSA02J-273	M.G.RESISTOR	27K 1/10W
R35	NRSA02J-153	M.G.RESISTOR	15K 1/10W
R37	NRSA02J-101	M.G.RESISTOR	100 1/10W
R38	NRSA02J-561	M.G.RESISTOR	560 1/10W
R39	NRSA02J-561	M.G.RESISTOR	560 1/10W
R43	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R44	NRSA02J-473	M.G.RESISTOR	47K 1/10W
R45	NRSA02J-102	M.G.RESISTOR	1.0K 1/10W
R46	NRSA02J-221	M.G.RESISTOR	220 1/10W
R47	NRSA02J-331	M.G.RESISTOR	330 1/10W
R48	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
R49	NRSA02J-472	M.G.RESISTOR	4.7K 1/10W
R50	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R51	NRSA02J-682	M.G.RESISTOR	6.8K 1/10W
R52	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R53	NRSA02J-333	M.G.RESISTOR	33K 1/10W
R54	NRSA02J-682	M.G.RESISTOR	6.8K 1/10W
R55	NRSA02J-333	M.G.RESISTOR	33K 1/10W
R56	NRSA02J-103	M.G.RESISTOR	10K 1/10W
R57	NRSA02J-104	M.G.RESISTOR	100K 1/10W
R58	NRSA02J-394	M.G.RESISTOR	390K 1/10W
R59	NRSA02J-223	M.G.RESISTOR	22K 1/10W
R60	NRSA02J-153	M.G.RESISTOR	15K 1/10W
R61	NRSA02J-222	M.G.RESISTOR	2.2K 1/10W
R62	NRSA02J-103	M.G.RESISTOR	10K 1/10W
VR1	QVPB609-502	VR	5.0K H HOLD
VR2	QVPB609-502	VR	5.0K V HOLD
VR3	QVPB609-501	VR	500 V LIN
VR4	QVPB609-501	VR	500 V HEIGHT
VR5	QVPB609-502	VR	5.0K H SIZE
C1	QER41HM-105	E.CAPACITOR	1 50V
C2	QER41CM-106	E.CAPACITOR	10 16V
C3	NCT03CH-271	CER.CAPACITOR	270P 50V
C4	NCB21HK-473	CER.CAPACITOR	0.047 50V
C6	NCB21EK-104	CER.CAPACITOR	0.10 25V
C7	NCB21HK-682	CER.CAPACITOR	6800P 50V
C8	QER41HM-105	E.CAPACITOR	1.0 50V
C9	QFP42AJ-562	P.P.CAPACITOR	5600P 100V
C10	QETA1AM-227	E.CAPACITOR	220 10V
C11	QER41AM-336	E.CAPACITOR	33 10V
C12	NCB21HK-333	CER.CAPACITOR	0.033 50V
C13	QER41HM-105	E.CAPACITOR	1.0 50V
C14	QFN41HJ-223	MYLAR CAPACITOR	0.022 50V
C15	QFN41HJ-682	MYLAR CAPACITOR	6800P 50V
C16	QETA1AM-227	E.CAPACITOR	220 10V
C17	QEJ41VM-105	TAN.CAPACITOR	1.0 35V
C18	QFN41HJ-333	MYLAR CAPACITOR	0.033 50V
C19	QETA1AM-107	E.CAPACITOR	100 10V
C21	QER41CM-106	E.CAPACITOR	10 16V
C22	NCS21HJ-102	CER.CAPACITOR	1000P 50V
C23	NCT03CH-271	CER.CAPACITOR	270P 50V
C24	QETA1AM-107	E.CAPACITOR	100 10V
C25	QETA1CM-108	E.CAPACITOR	1000 16V
C26	QEVA1EM-109	E.CAPACITOR	10000 25V
C27	NCF21HZ-104	CER.CAPACITOR	0.10 50V
C28	NCF21HZ-104	CER.CAPACITOR	0.10 50V
C29	QETA1CM-228	E.CAPACITOR	2200 16V
C30	QER41CM-106	E.CAPACITOR	10 16V
C31	NCF21HZ-104	CER.CAPACITOR	0.10 50V
C32	QETA1CM-228	E.CAPACITOR	2200 16V

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6.2 HV board assembly list [0][2]

〈SCK2361-02-00A〉 [0][2]□□□□□□

Symbol No.	Part No.	Part Name	Description	
C33	NCF21HZ-104	CER.CAPACITOR	0.10	50V
C35	NCT03CH-221	CER.CAPACITOR	220P	50V
C36	QETA2AM-105	E.CAPACITOR	1.0	100V
C37	QETA2AM-105	E.CAPACITOR	1.0	100V
C38	QER41CM-106	E.CAPACITOR	10	16V
L1	SSV0569	COIL	250μH	
CN2	SSV1283-005	CONNECTOR	5-PIN	
CN3	SSV1591-S05	CONNECTOR	5-PIN	
CN5	SSV1283-007	CONNECTOR	7-PIN	
CN6	SSV1209-S10	CONNECTOR	10-PIN	
CN8	SSV1283-005	CONNECTOR	5-PIN	
CN9	SSV1591-S02	CONNECTOR	2-PIN	
CN10	SSV1283-002	CONNECTOR	2-PIN	
TP1	SQMX001-001Z	TEST POINT		
FC101	SCV1271-001	FUSE CLIP	FOR F1	
FC102	SCV1271-002	FUSE CLIP	FOR F1	

Symbol No.	Part No.	Part Name	Description	
Q101	2SC1384(R)	SI.TRANSISTOR	MATSUSHITA	
Q102	2SD1163A	SI.TRANSISTOR	HITACHI	
D101	RGP15G	SI.DIODE	JRC	
D102	RH1	SI.DIODE	SANKEN	
D103	RGP15G	SI.DIODE	JRC	
D104	RH1B	SI DIODE	SANKEN	
R101	QRD161J-471	CARBON RESISTOR	470	1/6W
R103	QRD161J-150	CARBON RESISTOR	15	1/6W
R104	QRD161J-101	CARBON RESISTOR	100	1/6W
R105	QRD161J-2R2	CARBON RESISTOR	2.2	1/6W
R106	QRD161J-473	CARBON RESISTOR	47K	1/6W
R107	QRD161J-102	CARBON RESISTOR	1.0K	1/6W
R108	QRD161J-6R8	CARBON RESISTOR	6.8	1/6W
R109	QRD161J-6R8	CARBON RESISTOR	6.8	1/6W
VR101	QVZ3501-225	TRIM. RESISTOR	2.2M	FOCUS
C101	QETA1CM-227	E.CAPACITOR	220	16V
C102	QFN41HJ-822	MYLAR CAPACITOR	8200P	50V
C103	QFP42XK-183	P.P.CAPACITOR	0.018	600V
C104	QFP42XK-183	P.P.CAPACITOR	0.018	600V
C106	SAV0011-001	E.CAPACITOR	6.8	25V
C107	QETA1EM-477	E.CAPACITOR	470	25V
C108	QETA2AM-476	E.CAPACITOR	47	100V
C109	QETA1EM-107	E.CAPACITOR	100	25V
C110	QFP32XK-103	P.P.CAPACITOR	0.010	600V
L101	SSV0569	COIL	250 μH	
L102	SCV0550-001	LINEARITY COIL	H LIN	
S101	SCV1080-003	SOCKET		
CN6	SSV1209-S10	CONNECTOR	10-PIN	
CN7	SSV1283-004	CONNECTOR	4-PIN	
SP101	SCV1392-001	SHORT PIN		
T101	SCV0887	H.DRIVE TRANSF.		

6.3 CRT board assembly list [0][3]
〈SCK2361-03-00A〉

[0][3]□□□□□□□

Symbol No.	Part No.	Part Name	Description	
Q201	2SC2295(B.C)	TRANSISTOR	MATSUSHITA	
Q202	2SC2295(B.C)	TRANSISTOR	MATSUSHITA	
Q203	2SC2632(R)	SI.TRANSISTOR	MATSUSHITA	
D201	SVC321(A)	VARI CAP DIODE	SANYO	
D203	MA152K	DIODE	MATSUSHITA	
D204	HSS82	SI.DIODE	HITACHI	
R201	NRSA02J-183	M.G.RESISTOR	18K	1/10W
R202	NRSA02J-392	M.G.RESISTOR	3.9K	1/10W
R203	NRSA02J-221	M.G.RESISTOR	220	1/10W
R204	NRSA02J-222	M.G.RESISTOR	2.2K	1/10W
R205	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R207	NRSA02J-102	M.G.RESISTOR	1.0K	1/10W
R208	NRSA02J-271	M.G.RESISTOR	270	1/10W
R209	NRSA02J-104	M.G.RESISTOR	100K	1/10W
R210	NRSA02J-561	M.G.RESISTOR	560	1/10W
R212	NRSA02J-333	M.G.RESISTOR	33K	1/10W
R213	NRSA02J-472	M.G.RESISTOR	4.7K	1/10W
R215	QRG016J-392	O.M.F.RESISTOR	3.9K	1W
R216	NRSA02J-152	M.G.RESISTOR	1.5K	1/10W
R217	NRSA02J-181	M.G.RESISTOR	180	1/10W
R218	NRSA02J-221	M.G.RESISTOR	220	1/10W
R219	NRSA02J-105	M.G.RESISTOR	1.0M	1/10W
C201	QETA1AM-107	E.CAPACITOR	100	10V
C202	QETA1AM-227	E.CAPACITOR	220	10V
C203	QETA1AM-107	E.CAPACITOR	100	10V
C205	NCB21HK-103	CER.CAPACITOR	0.010	50V
C206	QETA1AM-227	E.CAPACITOR	220	10V
C207	QETA1AM-107	E.CAPACITOR	100	10V
C208	QETA2AM-475	E.CAPACITOR	4.7	100V
C209	QETA2AM-475	E.CAPACITOR	4.7	100V
C210	NCT03CH-151	CER.CAPACITOR	150P	50V
C211	QFN42AK-473	MYLAR CAPACITOR	0.047	100V
L201	SCV0331-120	PEAKING COIL	12μH	
L202	SCV0331-470	PEAKING COIL	47μH	
J11	SCV0036-001	CRT SOCKET		
CN4	SSV1591-S04	CONNECTOR	4-PIN	
CN5	SSV1283-007	CONNECTOR	7-PIN	

6.4 VR board assembly list [0][4]
〈SCK2361-04-00A〉

[0][4]□□□□□□

Symbol No.	Part No.	Part Name	Description	
R62	QRD161J-222	CARBON RESISTOR	2.2K	1/6W
VR6	SCV0515-202	CAR.V.RESISTOR	2K	CONTRAST
VR7	SCV0515-103	CAR.V.RESISTOR	10K	PEAKING
VR8	SCV0515-104	CAR.V.RESISTOR	100K	BRIGHT
CN3	SSV1591-S05	CONNECTOR	5-PIN	
CN4	SSV1591-S04	CONNECTOR	4-PIN	

6.5 TR board assembly list [0][5]
〈SCK2361-05-00A〉

[0][5]□□□□□□

Symbol No.	Part No.	Part Name	Description	
Q6	2SD1266A(P.Q)	SI.TRANSISTOR	MATSUSHITA	
Q7	2SB941A(P.Q)	SI.TRANSISTOR	MATSUSHITA	
R41	QRD161J-2R2	CARBON RESISTOR	2.2	1/6W
R42	QRD161J-2R2	CARBON RESISTOR	2.2	1/6W
CN8	SSV1283-005	CONNECTOR	5-PIN	

6.6 LED board assembly list [0][6]
〈SCK2361-06-00A〉

[0][6]□□□□□□

Symbol No.	Part No.	Part Name	Description
D2	SLB-26UR19	L.E.D.	TALLY(CRT SIDE)
CN9	SSV1591-S02	CONNECTOR	2-PIN

INSTRUCTIONS

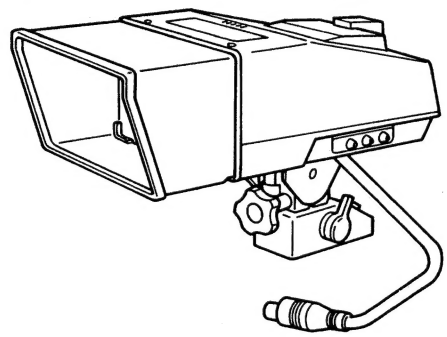
JVC

VF-P550B

VIEWFINDER

BEDIENUNGSANLEITUNG: SUCHER VF-P550B

MANUEL D'INSTRUCTIONS: VISEUR VF-P550B



For Customers Use:

Enter below the Serial No. which is located on the bottom of the body. Retain this information for future reference.

Model No. **VF-P550B**

Serial No.

The instructions are given in three languages:

English from page 1 to 6
German from page 7 to 12
French from page 13 to 18

Bedienungsanleitung in drei Sprachen:

Englisch: Seite 1 bis 6
Deutsch: Seite 7 bis 12
Französisch: Seite 13 bis 18

Les explications techniques sont données en trois langues:

Anglais, page 1 à 6
Allemand, page 7 à 12
Français, page 13 à 18

POWER SYSTEM

Connection of power supply

The VF-P550B viewfinder is designed only for connection to the KY series color video cameras. Power is supplied from the camera.

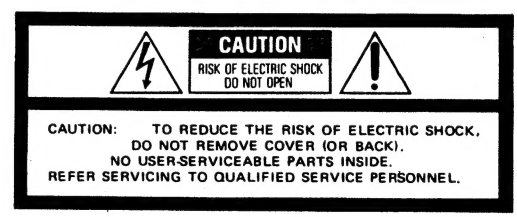
THIS PRODUCT COMPLIES WITH D.O.C LIMITS (C.R.C., C. 1374) PERTAINING TO CLASS B DIGITAL APPARATUS.

CE PRODUIT EST CONFORME AUX NORMES DU M.D.C. (C.R.C., ch. 1374) S'APPLIQUANT AUX APPAREILS NUMÉRIQUES DE CLASSED B.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 12 V DC only.
CAUTION:
To prevent electric shocks and fire hazards, do NOT use any other power source.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Thank you for purchasing the JVC VF-P550B electronic viewfinder.
The VF-P550B has an under-scanned 140 mm (5.5" diagonal measurement) picture tube for studio use with the JVC KY series color video cameras.
To gain maximum benefit from the use of the VF-P550B it is suggested that you study this booklet carefully.

FEATURES

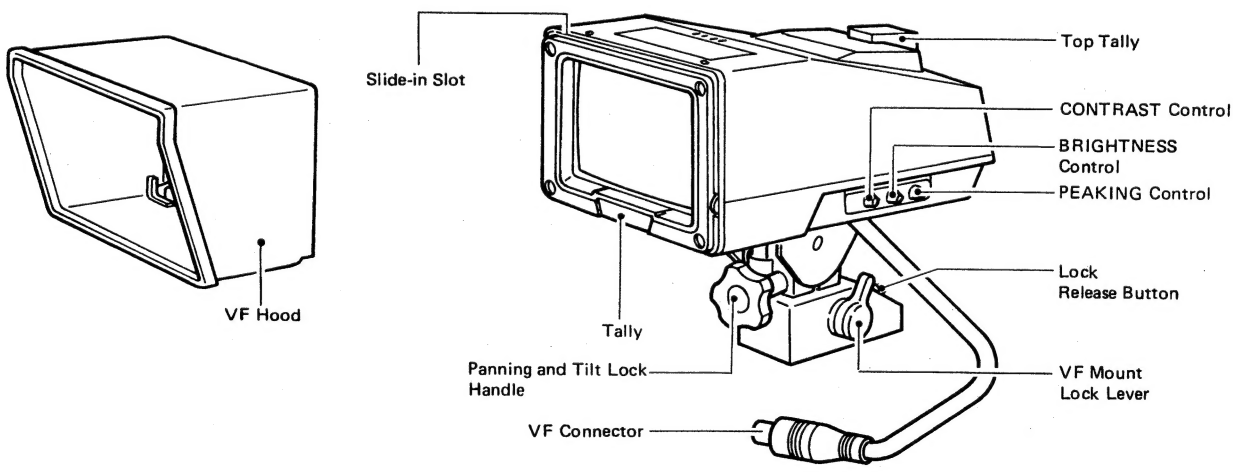
- Easily mounted onto, or removed from, the KY series video camera.
- Friction tilt mechanism allows downwards/upwards vertical movement; also, left/right horizontal settings are possible.
- Tally lamps provided on the top and front near the CRT.

CONTENTS

PRECAUTIONS

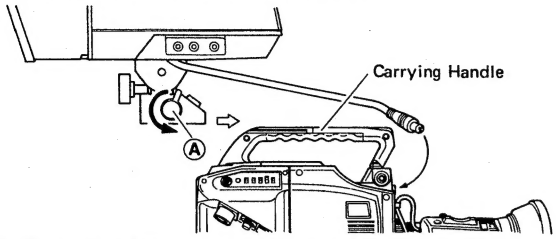
- Do not allow inflammables, water or metallic objects to get inside the viewfinder, as this will cause damage or malfunctioning.
- High voltage developed inside the viewfinder is dangerous.

CONTROLS, CONNECTORS AND INDICATORS

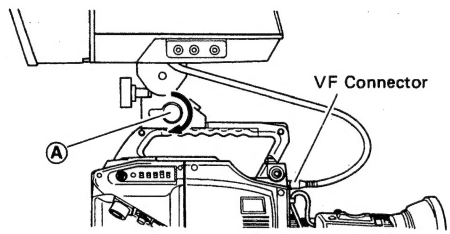


CONNECTION AND OPERATION

■ MOUNTING ONTO CAMERA HEAD

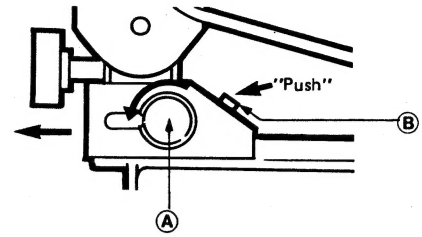


1. Turn the VF mount lock lever Ⓐ counterclockwise (↶).
2. Insert the viewfinder from the back of the camera, aligning the mount key with the carrying handle on the Camera.



3. Turn lock lever Ⓐ clockwise (↷) to fix the viewfinder.
4. Connect the viewfinder connection cable to the connector on the camera head. Be careful not to damage key pin of the connector.

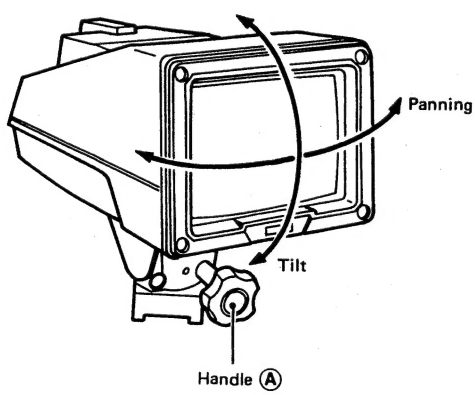
■ REMOVING THE VIEWFINDER



1. Turn lock lever Ⓐ counterclockwise (↶).
2. While holding lock release button Ⓑ depressed, slide the viewfinder out toward the back of the camera.

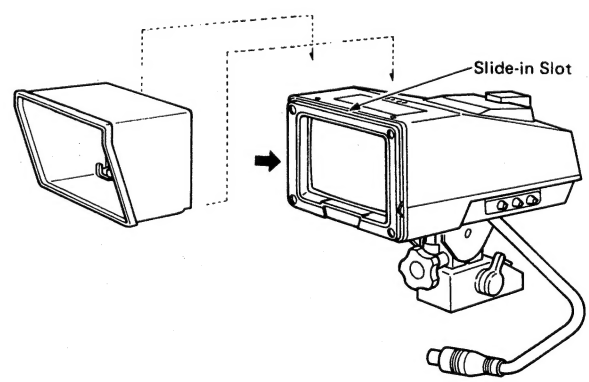
■ OPERATION

● Adjusting the position



1. Tilt and pan the viewfinder head as required. Loosen handle Ⓐ and secure after positioning.

● Attaching the hood



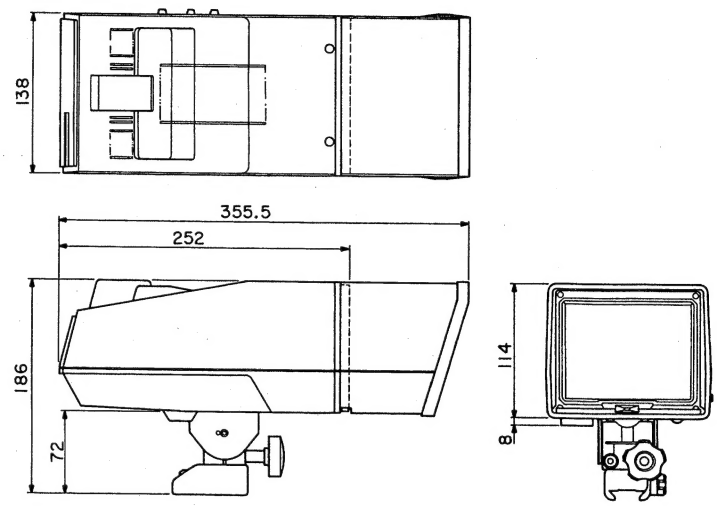
1. Insert the hood in such a way that its front ribs fit over the slot on the upper portion of the viewfinder escutcheon.

SPECIFICATIONS

Input signal	: Composite video, 1 Vp-p, high impedance
CRT	: 140 mm (5.5") diagonal
Resolution	: More than 650 lines
Tally lamps	: Top; filament lamp (12 V) Screen side; L.E.D.
Power consumption	: 12 V DC, 14 W (provided from video camera)
Ambient temperature range	: –10°C to +45°C (–4°F to +122°F)
Weight	: 2.5 kg (5.6 lbs)
Accessory	: Viewfinder hood

Design and specifications subject to change without notice.

Dimensions



Unit: mm

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